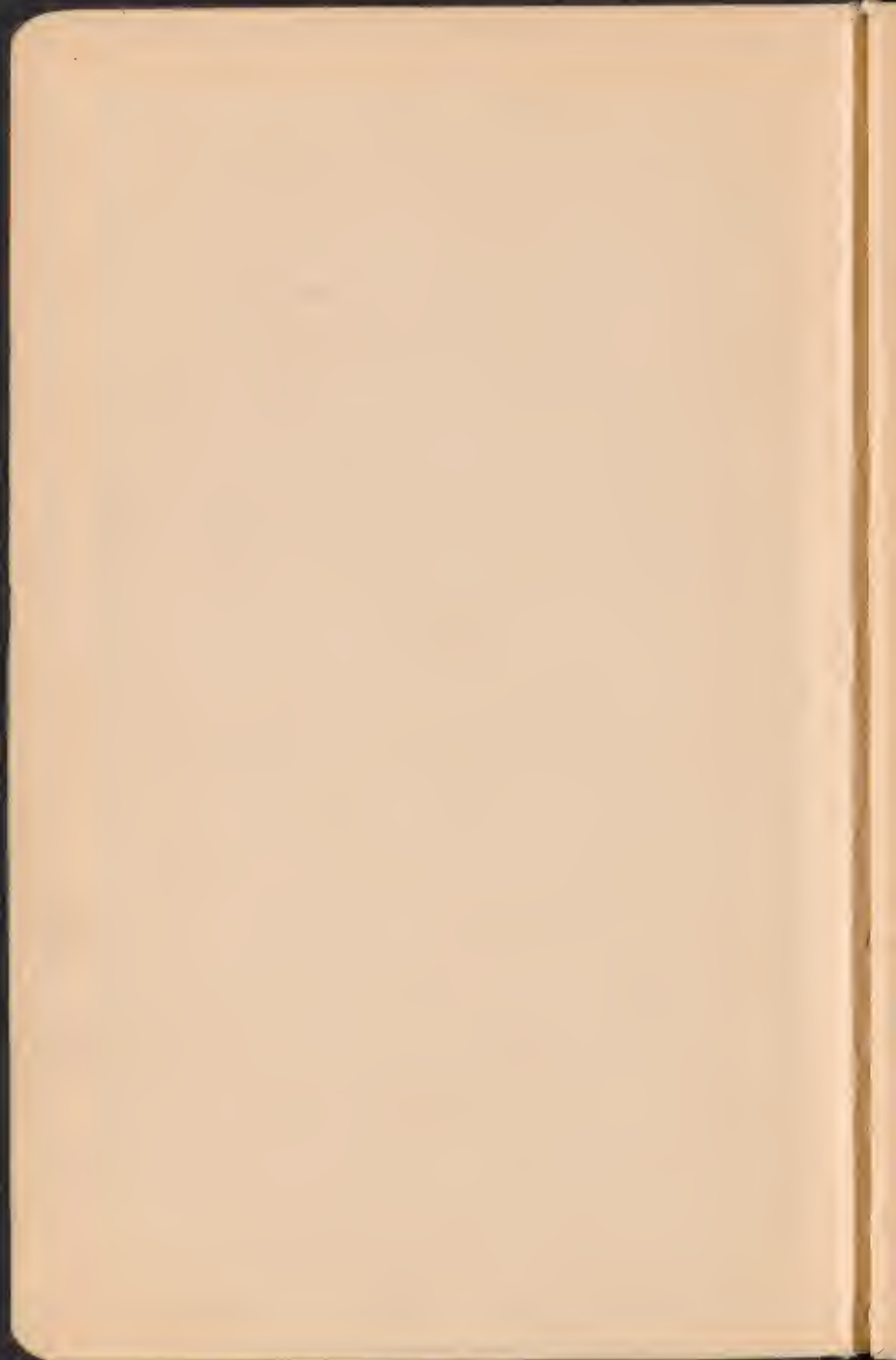


# Record

RECORD OF THE WASHINGTON  
UNIVERSITY EXPEDITION TO  
PANAMA 1934-35 AFTER  
JAN. 18-'35 THIS BEING  
UNDER THE LEADERSHIP OF  
MR. F. A. HUNTER





Jan 19- Finished the collection made yesterday at old Panama by Dr. Dodge and Mrs. and Miss Hunter. Spent rest of morning working on presses - things coming out of driers very well. Went out to Pedro Miguel in late afternoon with Miss Hunter and collected some things - Worked up the Pedro Miguel collection this evening - nothing very startling - several grasses -

Jan. 20 - Went up to Chopo with Mr. Hunter - went up to the foot of the hills above Chopo looking for the river but it evidently went more to the right. Country mostly llanos with woods along streams - were pretty hard put for water at noon and drank out of a little stagnant pool in a creek bed but no ill effects - Went down below town afterwards to the Chopo river - collected along the road some coming back -

Jan 21. Worked all day pressing up  
the things from yesterday. Have a  
vast amount of material - Doubtful  
if will be able to get it all put  
up before it goes bad -

Jan 22. All day also on the Chipo  
material - kept remarkably well  
Got 93 numbers out. Packed up  
the pickled material and some  
more dry plants in a box to ship  
out Thursday -

Jan. 23. Worked changing drawers  
Got out some of the smaller Chipo  
material. Packed up and Mr. Hunter  
called for me at 4:30 - Went over  
to Taboga on the launch -

Jan. 24. Went up the ridge trail  
to the top of the island - got lost  
going down a steep draw on  
the far side and followed a  
trail around the end of the  
island - Put up the morning's  
collection in the afternoon.

Jan 25. Went across the quebrada to the right of the hotel and up the ridge to the cross on the headland and beyond toward the far side - Island most abrupt and rocky on the other side.

Went back and took the ridge trail and followed down to the toron and across the campway to the small island. Had to hurry as the tide was coming up - but a very beautiful tree (*plumaria*?) flowers most fragrant. Spent afternoon working up the collection.

Jan. 25. Up early to take the launch back to toron - a most beautiful sunrise as we crossed the bay. clouds a beautiful shell pink over the Cerro Grande to the west. Spent balance of the day going over the presses. most of the things from Vepo came out.

Jan 27 - Went up the Rio Tecumen on the road to Chipo with Mr. Hunter. After crossing the river a most curious country of thick low brush (25 ft more or less) and dry washes. Many orchids found - probably the richest orchid section yet - many *peristerias* - *oncidiums* - *Bletias* and others - The Tecumen much like many of the large quebradas up at the lake.

Jan 28 - Worked up the Tecumen collection

Jan. 29 - Changed days - Not ready to go up to El Valle tomorrow

Jan 30 - Took the 7:30 ferry and went up to the valle. Passed Cerro Trinidad again for to the right on the road to Petrelo. Hope to climb it some day. Country about 20 miles or more from the valle shows signs of volcanic ash becoming dryer as you approach

Cross a very rough stretch of bad lands in climbing up to the pass. Land all cut to pieces as far as you can see - A high jagged set of peaks surround the valley proper - can be seen for many miles - Got down in and appropriated a house near the Rio Indio Trail. Went up the trail for a couple miles collecting - dense shade most of the way following a stream -

Jan 31 - Spent day working up the Indio Trail material - Mr. Hunter went out and brought in some things.

Feb 1. Worked up the rest of the Indio Trail and the things Mr. Hunter brought in yesterday.

Feb 2 - Packed up the car and went down to the lower valley and followed the trail a way toward the town of Anton - then back and through the marshes to the Anton river. High winds and a fine mist blowing most of the

time - to digest a bit - this type of weather seems to be common here - called Bajareca by the natives as it sores the crops over the dry season. Saw a beautiful group of *Epilendium radicans* in flower in a marsh along the Antón river. Left the valle toward noon - had to be hauled part of the way up to the pass - road in poor condition but are working on it. Stopped in some small streams at Las Margaritas to collect some frogs for Mr. Zetzel.

Feb-3 - Worked up some of yesterday's collection. Went in to Pavana in the evening to hear the local concert at the plaza -

Feb-4 Worked on the valle collection - finished up.

Feb-5 - Changed dresses - many things out of press. went out to the dam for a few minutes in the afternoon.

Feb 6 - Packed a box to send back to the garden in the forenoon. Went out to Falpa Beach and worked out to the Lepet colony in the afternoon collecting with Mr. Hunter. Most of the country tidewater mangrove swamps. Picked up a few things along the beach.

Feb. 7 - Put up yesterday's collection.

Feb-8 - Went out to Madden dam to try to get Francisco to go up the lake. Couldn't find him or anyone else - collected along the Los Cuscos trail and in the Riv. forest preserve. Spent afternoon working up material.

Feb 9 - Spent morning working on pressed. Mr. Hunter called for me at noon and we went up the Chepo road across the Rio Pucosa and in to the South across the llanos.

to a hunting club la laguna  
in a swamp near the headwaters  
of the Rio Laguna. Spent balance of  
day hunting around the  
immediate vicinity - was quite  
disappointed. Flows very dry  
and the nearest bit of swamp  
land was poor in specimens.

2-10-24 at 4:00 A.M. Took horses  
across the swamp for a place  
called Conger hill - Had a time  
getting started - A sort of low  
thorny scrub brush is common  
in the swamps. Pitch black  
and the horses complained by  
refusing to go and standing  
on their hind legs when  
gently persuaded with a piece  
of the same thorny scrub.

Not light enough to see about  
the time we got to the Rio  
Laguna - Conger hill proved to  
be a perfectly flat stretch of  
swamp - very good cockatooing  
found a white tropical

water lily - 3 new apocynoes  
and a new variety of *Oncidium*  
*striatatum* -

2-11. Back in Balboa - spent day  
putting up the Conger hill  
collection - Things kept very  
well -

2-12. Changed ciphers hoping to  
get enough out to leave for  
Panama. Got out about 200  
but wait at least twice that  
many - better luck tomorrow.

2-13 - Changed presses again - got  
out about a hundred more - decided  
to wait a day - Mr. Hunt  
suffering from stomach trouble and  
need more ciphers -

2-14 - Got out about 150 more  
ciphers - spent rest of day getting  
together supplies to go up  
the country -

2-15. Left on the 8:00 O'clock ferry  
 same drive up to San Carlos -  
 High jagged blue peaks to the  
 north - Country after San Carlos  
 flattens out to long low  
 llanos - as flat as the Texas  
 prairie - very dry and  
 little sign of cattle except  
 in marshy spots near rivers.  
 Penonome on the llanos but quite  
 near to the foot of the hills -  
 Trail (not road) over to La Pintada  
 very bad - many washes and gullies  
 apparently no attempt to repair  
 it - only traffic of cattle -  
 Finally stopped at an impossible  
 crossing at a river and walked  
 over to La Pintada about 5 miles.  
 Ordered horses for the morning  
 Visited the Alcalde (by request)  
 Seems while men don't get up  
 that way very often - Population  
 mostly Indian. Went back and  
 camped near the river for the  
 night.

2-16 - Walked up to La Pintada again - No sign of buy - horses - Alcalde or anyone else who would do anything - Finally got tired waiting and went up in the mountains on foot - Went up about 15 miles and got lost several times - Came on a clearing with many large trees which had been felled - Many orchids and other similar plants - Both of us loaded down with material - finally found the trail again and started back - Met an Indian boy with a horse and persuaded him to carry the things back to the cat for a dollar - distance about 20 miles - Got in to Penonomé about dark - stayed in a native hotel -

2-17 - Mr. Huntly went back with the cat and brought in another load from above Pintada while I stayed back in town and worked up material -

2-18 - worked on things till about 11:00 - Presses full - packed up and came down to Balboa - got in pretty late -

2-19 - Packed up things - mostly orchids - had to look most of them -

2-20 - Finished up the things about noon - almost all former things out of press - getting ready to go up to Madden again for orchids.

2-21 - Picked up Francisco and another man and went up the lake paddled all the way - unable to get the launch - Stopped at Salamanca for lunch at noon. Got in to the Belusa station about 4:30. Went up the trail in back for an hour or so but found little -

2-22 - Went overland through dense jungle for 26 upper Bogueson - Constant heavy rain - Trail bad and slippery - Finally no trail at all - cut across country mostly following the ridges - Came on the river in a place unknown to me - must have been within twelve miles or so of the Atlantic - river very fast running through rock gorges. Explored up and down stream for several miles - Found four plants of *Sobralia powellii* - Beautiful large milk white flowers with a yellow tinged lip - Got back to the station rather earlier than we expected -

2-23 Went down the lake and gathered orchids in the mouth of Rio Chapas and up the Que. Transquila - Collected some yellow tree coming down.



2-24 - Packed up the material from Rio Bonifacio -

2-25 - Went out on the Cruces trail and brought in a lot of ~~wild~~ material - much of it rather fragmentary but was rather unavoidable -

2-26 - Worked up the Cruces trail things -

2-27 - Worked on Cruces trail material and on plates in morning and went with Mr. Hunter over around the old towers of Empire - Culobra cut and vicinity in the afternoon

2-28 - Worked up the Empire collection

3-1 - Still a few of the Empire things - Mr. Pising and Dr. Moore arrived in the afternoon

3-2- Changed presses - good many things out.

3-3. Went over to Taboga again for Tetraurium seed - some *plumaria* cuttings and more rock lichens - only had about five hours on the island -

3-4 Packed up a box to ship back - worked on presses in the afternoon -

3-5. Went up to Muddy Dam with Dr. Moore - Mr. Pring - Mr. Hunter. Took the launch up the Pequene past the mouth of Boyaulon. very picturesque.

3-6. Worked up one or two things from the lake and on presses in general -

3-7. Went up the road to Chopo as far as Pacora.

with Dr. Moore and Mr. Pring along - Collected some things along the way -

3-8 - Packed up the Pocora things and worked on plates.

3-9 - Went to Panama Vieja with Mr. Hunter in the morning - Followed the coast down to Bella Vista - Worked the beach almost entirely as the brush back from the beach had much of it been burned - Coast very rough and rocky the entire distance - Packed up the morning's find in the afternoon - Dr. Moore and Mr. Pring left late in the afternoon for the States -

3-10 - Went out across Rio Tocumen again with Mr. Hunter after orchids - Got a lot of *Plethysia* *Bletia* - *Epidendrum* - *Chorizanthes* etc - the latter being alive with

ants as usual cut the Champs  
up and ran with them to the  
river and worked out the ants.

Last day of Mr. Hunter's vacation -

3-11- Went across the isthmus with  
Dr. Currie to the Mojingo swamp.  
Went around in the swamp area in  
the morning. Very heavy timber  
with the forest top running about  
150' d should judge - too dense  
shade to find a great deal in  
bloom. Went down to Laques  
spiral to the mouth at old Fort  
San Lorenzo in the afternoon. Many  
new things found here as there  
was much more light - a quite  
worth while trip -

3-12. Worked up the Mojingo swamp  
material.

3-13- Worked on presses - but not quite  
a bit dry - Will need more to go back  
to Mojingo.

3-14 - Packed out some more traps -  
Packed up ready to go back to the  
Swamp -

3-15 - Went out on morning train -  
Met Brown at station - waited about  
45 minutes getting supplies at the  
commissary - Went over to the dock  
by hand car - Down the river to  
the mouth - Old Fort San Lorenzo  
Went pretty well over all the old  
fort

3-16 - Worked up yesterday's collection  
in the morning - Went down the  
Chagres by row boat in the afternoon  
Packed up some things - worked a  
few up in the evening -

3-17 - Finished up yesterday's  
things - walked over the trail to -  
road San Lorenzo - immense  
trees and some of the most  
picturesque jungle but too dark  
to be good collecting -

3-18 - Mr. Brown and Dr. - of the health dept. come down in the morning - they went across the swamp to near Fort Sherman collecting mosquitoes - Went along - heavy jungle and very dark but got some good things - Packed up and came back to Balboa on evening train as all passages were full.

3-19 - Worked on yesterday's collection and changed labels.

3-20 - Changed labels - Good many things wet -

3-21 - Same - changed labels

3-22 - Went with Mr. Dewey over to his place on the Rio Hato with about a six mile walk from Madden Dam I should judge - good many new clearings - some of them just been burned - Very dense trail through heavy jungle across the continental divide - Collecting

nothing extra - Mr Dewey a very interesting man personally and has an excellent nursery of citrus fruits with many new and improved varieties -

3-23 - Worked on presses -

3-24 - Changed one press in morning - went out to Falfan and loafed in the afternoon

3-25 - Took the morning train to Frijoles - Collected up the Frijolito river and the Pilon and Agua Salud - Some things had not been seen before -

3-26 - Worked up yesterday's things -

3-27 - Went over presses -

3-28 - Went out to Juan Diaz and followed the Juan Diaz river back to the mountains - some new trees found -

3-29 - Pressed up the Juan Diaz material -

3-30 - Changed presses -

3-31 - Changed ~~presses~~ presses - Mr. Hunter  
petty-sick again -

4-1 - Changed presses

4-2 - " " "

4-3 Went out on the Chira-Chira trail  
back to the town of Chira-Chira  
and beyond to a government  
searchlight station in the hills -

A fine view from the top - Retired  
to the village again and across  
country by trail to Bella-vista  
Part way was by the old Cruces  
trail - Paving still in good  
condition in spots - collecting  
fruit - Much of the land under  
cultivation - very dry and many  
brush fires going -

4-4 - Worked up yesterday's collection

4-5. Went out to Madder Dam and fished up Francisco - the lake is entirely empty now so he had his canyaco below the dam. Went down the Chagres to Hambora - looking for *Oncidium Parvella* as usual with the usual result - Collecting not particularly good as much of the land is in cultivation or second growth - very dry - trip operated on Mr. Hunter today for an obstruction in the intestine.

4-6 - Worked up yesterday's things. Mr. Hunter died in Ancon hospital at 10:55 P.M. A grand old man.

4-7 - Spent the day quietly at home -

4-8 - Changed presses -

4-9 - Changed presses -

4-10 - Services for Mr. Hunter from the Episcopal Church at 5:00 P.M.

4-11- Changed planes.

4-12 - Packed a box to send to the States

4-13 - Got practically everything out of press.

4-14 Went over to Tapoga with Mrs. Hunter. Collecting very poor.

4-15 practically nothing -

4-16 - Getting together supplies to go up to Chiriqui.

4-17 - Final packing up -

4-18 - Left on the 6:30 ferry - very hot and dry through Cocle and Veraguas provinces. High saw edged peaks on the right as usual in the same blue haze. Road under construction and very bad from Gona to Remedios. Arrived in David about 7:00. David alive with mosquitoes - but the road for Concepcion about 2:00 P.M.

Comped about 3 near a river.

4-19 Drove on in to La Concepcion road used principally for ox carts and very poor and rough. Left the Cora in a garage in Concepcion and got a man to haul the press up to about two miles below El Volcan post office. Went out collecting in the afternoon.

4-20 - Put up yesterday's collection.

4-21 - Went up toward the Volcan early and collected in a river valley along the way - got quite a lot of orchids. Began to rain about noon and the clouds dropped down. Got a pack horse and went on up on the llano near the Rio Chiriqui viejo - constant mist and rain - quite cold. Landscape suggests high alpine regions. Many plants of almost an alpine nature found - altitude about 6000 ft.



4-22 - Put up yesterday's collection -  
Had a hard earth quake about 1:30 P.M.

4-23 - Spent the day in bed - it was too  
much rain and cold.

4-24 - Went down to Concepcion in  
the early morning - the Volcan very  
picturesque in the morning light -  
long narrow bands of cloud floating  
below the summit - Drove down  
to David and took the train for  
Boquete - Collected there in the  
afternoon.

4-25 - Caught the train in Boquete  
about 7:00 - Left David about 9:00  
Arrived in Balboa 8:30 P.M. - A Terrible  
drive.

4-26 - put up the Boquete collection

4-27 - Went with George to a place  
near Bejuco collecting orchids - Quite  
a nice haul.



4-28- Went with F. M. Bouche across  
from Chorrera to near the Rio Trinidad  
collecting orchids - A long hot  
trail and collecting nothing extra -

4-29 - Changed presses -

4-30 - Changed dyes

5-1 - Changed dyes -

5-2 - Went with Mr. Hunter to  
El Valle - not a fairly good haul  
of orchids - a high wind and  
much mist and rain -

5-3 - Spent day packing to return -

